USGS
science for a changing world

Earthquake
Shaking

Green
Alert

GSN
ANSS

USAID
FROM THE AMERICAN PEOPLE

PAGER
Version 3

M 5.8, 8km ESE of Baklan, Turkey

Origin Time: 2019-08-08 11:25:31 UTC (Thu 14:25:31 local)
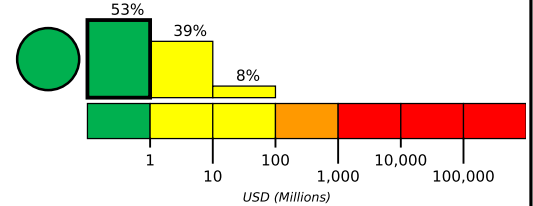Location: 37.9480° N 29.6968° E Depth: 10.0 km

Created: 2 hours, 2 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
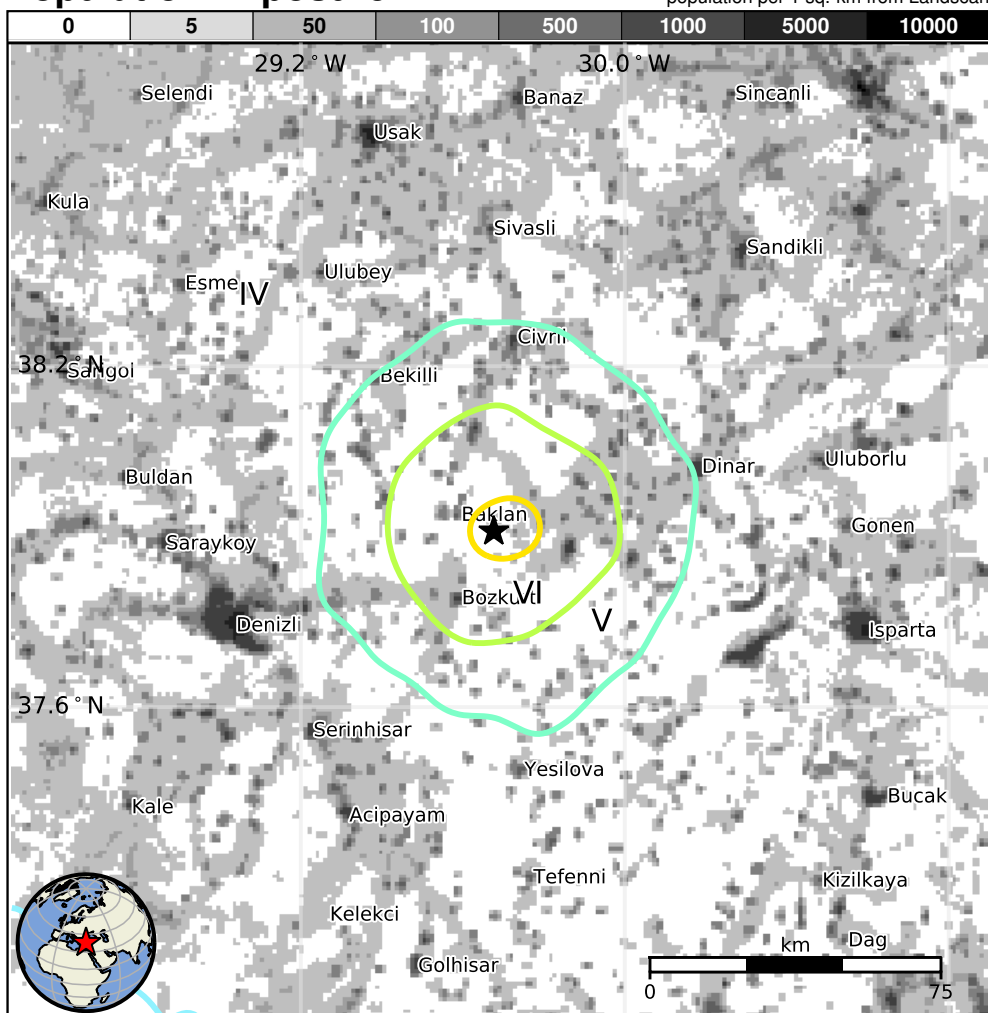
65%
30%
4%

1   10   100   1,000   10,000   100,000
Fatalities

Estimated Economic Losses

53%
39%
8%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	1k*	2,588k	349k	79k	5k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

| 0 | 5 | 50 | 100 | 500 | 1000 | 5000 | 10000 |

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are adobe block and dressed stone/block masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1999-09-29	311	5.2	VII(28k)	1
1999-11-11	314	5.6	VII(2k)	1
1999-08-17	311	7.6	IX(396k)	17k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	**Baklan**	**7k**
VI	Dazkiri	6k
VI	**Bozkurt**	**4k**
VI	Cardak	<1k
VI	Evciler	5k
V	Basmakci	8k
V	**Isparta**	**172k**
IV	Burdur	66k
IV	**Usak**	**153k**
IV	**Denizli**	**313k**
IV	Afyonkarahisar	146k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us6000529r#pager

Event ID: us6000529r